STIC-Biotech/ChemLib 118700

From: Kaushal, Sumesh
Sent: Monday, April 05, 2004 1:39 PM
To: STIC-Biotech/ChemLib
Subject: 09613486: Interference and Sequence search

09/613,486: Interference and Sequence search

Please Search

- **SEQ ID NO:14 DNA 597 nt long**
- **SEQ ID NO:15 PRT 198 aa long**
- **Search amino acid of SEQ ID NO:15 against DNA database**

thanks
S. Kaushal
AU1636, REM2.B85
Ph: 571-27-20769
Mail Box: REM2.C70

- Interference search files removed - 4/13/04 SE

Searcher:_____
Phone:_____
Location:_____
Date Picked Up:_____
Date Completed:_____
Searcher Prep/Review:_____
Clerical:_____
Online time:_____

TYPE OF SEARCH:
NA Sequences:_____
AA Sequences:_____
Structures:_____
Bibliographic:_____
Litigation:_____
Full text:_____
Patent Family:_____
Other:_____

VENDOR/COST (where applic.)
STN:_____
DIALOG:_____
Questel/Orbit:_____
DRLink:_____
Lexis/Nexis:_____
Sequence Sys.:_____
WWW/Internet:_____
Other (specify):_____

L Number	Hits	Search Text	DB	Time stamp
3	11514	Agrobacterium	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/13 14:53
5	7553	Agrobacterium NEAR (vitis or tumefaciens)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/13 14:53
6	681	(Agrobacterium NEAR (vitis or tumefaciens)) and grape	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/13 14:53
7	312	Agrobacterium NEAR (vitis or tumefaciens).clm.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/13 14:53
1	2	HAI ADJ YING NEAR zhu	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/13 14:53
2	16	Grapevine ADJ leafroll ADJ virus	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/13 14:53
4	9	(Grapevine ADJ leafroll ADJ virus) and Agrobacterium	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/13 14:53
8	40	(Agrobacterium NEAR (vitis or tumefaciens).clm.) and grape	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/13 14:53
9	138	(Agrobacterium NEAR (vitis or tumefaciens).clm.) and (host ADJ cell)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/04/13 14:53
10	6	(US-5907085-$ or US-6558953-$ or US-6638720-$ or US-5459252-$ or US-5648477-$ or US-5668298-$ or US-6197948-$).did. or (US-20030198942-$).did. or (WO-9853055-$ or WO-9722700-$ or WO-9955880-$).did. or (WO-200105957-$).did.	USPAT; US-PGPUB; EPO; DERWENT	2004/04/13 14:53
11	12	(US-5648477-$ or US-5668298-$ or US-5459252-$ or US-6197948-$ or US-6638720-$ or US-6558953-$ or US-5907085-$).did. or (US-20030198942-$).did. or (WO-9853055-$ or WO-9722700-$ or WO-9955880-$).did. or (WO-200105957-$).did.	USPAT; US-PGPUB; EPO; DERWENT	2004/04/13 14:53

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     (FILE 'HOME' ENTERED AT 14:55:36 ON 13 APR 2004)

     FILE 'MEDLINE, AGRICOLA, CANCERLIT, SCISEARCH, CAPLUS, MEDICONF' ENTERED
     AT 14:55:44 ON 13 APR 2004
L1           241 S GRAPEVINE (L) LEAFROLL (L) VIRUS
L2            65 S L1 AND (COAT PROTEIN)
L3            37 DUP REM L2 (28 DUPLICATES REMOVED)
L4            14 S L3 AND PY<=1997
L5            14 SORT L4 PY

=> d an ti so au ab pi l5 10 13 14

L5   ANSWER 10 OF 14      MEDLINE on STN
AN   97372946      MEDLINE
TI   The coat protein gene of grapevine leafroll associated
     closterovirus-3: cloning, nucleotide sequencing and expression in
     transgenic plants.
SO   Archives of virology, (1997) 142 (6) 1101-16.
     Journal code: 7506870. ISSN: 0304-8608.
AU   Ling K S; Zhu H Y; Alvizo H; Hu J S; Drong R F; Slightom J L; Gonsalves D
AB   A lambda ZAP II cDNA library was constructed by cloning cDNA prepared from
     a high molecular weight double-stranded RNA (dsRNA, ca. 18 kb) isolated
     from grapevine leafroll associated closterovirus-3
     (GLRaV-3) infected tissues. This cDNA library was immuno-screened with
     GLRaV-3 coat protein specific polyclonal and
     monoclonal antibodies and three immuno-positive clones were identified.
     Analysis of nucleotide sequences from these clones revealed an open
     reading frame (ORF) which was truncated at the 3' end; the remainder of
     this ORF was obtained by sequencing a fourth clone that overlapped with
     one of the immunopositive clones. A total of 2028 bp was sequenced. The
     putative GLRaV-3 coat protein ORF, 939 bp, encodes a
     protein (referred to as p35) with a calculated M(r) of 34866. Multiple
     alignment of the p35 amino acid sequence with coat
     protein sequences from other closteroviruses revealed that the
     consensus amino acid residues (R and D) of filamentous plant
     viruses are preserved in the expected locations. The GLRaV-3
     coat protein gene was then engineered for sense and
     antisense expression in transgenic plants. Transgenic Nicotiana
     benthamiana plants that contain the sense GLRaV-3 coat
     protein gene produced a 35 kDa protein that reacted with GLRaV-3
     antibody in Western blot.

L5   ANSWER 13 OF 14  CAPLUS  COPYRIGHT 2004 ACS on STN
AN   1997:501512  CAPLUS
DN   127:131978
TI   Grapevine leafroll virus proteins and uses
     in producing transgenic virus-resistant grape or citrus plants
SO   PCT Int. Appl., 171 pp.
     CODEN: PIXXD2
IN   Gonsalves, Dennis; Ling, Kai-Shu
AB   The present invention relates to an isolated protein or polypeptide
     corresponding to a coat protein or other polypeptide
     of a grapevine leafroll virus. The encoding
     DNA mol. either alone in isolated form or in an expression system, a host
     cell, or a transgenic grape plan is also disclosed. Another aspect of the
     present invention relates to a method of imparting grapevine
     leafroll resistance to grape plants by transforming them with the
     DNA mol. of the present invention. A method for imparting tristeza
     virus resistance in citrus plants using the DNA mol. of the
     present invention is also disclosed.
     PATENT NO.        KIND  DATE          APPLICATION NO.  DATE
     ---------------   ----  --------      ---------------  --------
PI   WO 9722700         A2   19970626      WO 1996-US20747  19961220 <--
     WO 9722700         A3   19971211
          W:  AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,
              DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC,
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LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT,
RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, UZ, VN, AM,
AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR,
IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML,
MR, NE, SN, TD, TG

ZA 9610721	A	19980619	ZA 1996-10721	19961219	
CA 2242402	AA	19970626	CA 1996-2242402	19961220	<--
AU 9716889	A1	19970714	AU 1997-16889	19961220	<--
AU 727208	B2	20001207			
EP 896624	A2	19990217	EP 1996-945666	19961220	
R: AT, CH, DE, ES, FR, IT, LI, PT, SI					
US 6558953	B1	20030506	US 2000-579259	20000525	
US 6638720	B1	20031028	US 2000-650324	20000829	
US 2003198942	A1	20031023	US 2001-39112	20011231	

L5 ANSWER 14 OF 14 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1997:335128 CAPLUS
DN 126:303462
TI Antibodies and proteins useful for assaying virus infection in grape plants
SO Eur. Pat. Appl., 14 pp.
CODEN: EPXXDW
IN Monis, Judit; Bestwick, Richard K.
AB An approx. 37 kDa (kd) protein associated with **grapevine leafroll** disease infected plants is disclosed. The 37 kDa protein is the **coat protein** for a **grapevine leafroll**-associated **virus** designated GLRaV-8. The **grapevine virus**-encoded 37 kDa polypeptide is immunol. distinct from the approx. 36 kDa proteins associated with GLRaV-4 or GLRaV-5 or the approx. 38 kDa protein associated with GLRaV-1. The invention further provides a substantially pure antibody directed against the 37 kDa **virus**-associated protein, a stable cell line capable of producing such a monoclonal antibody, and a method for assaying for a **virus** infection in Vitis species. The method involves detecting the presence of a 37 kDa polypeptide encoded by an RNA-containing plant **virus** using an antibody that does not react with a virally encoded polypeptide of .apprx.38 kDa.

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
PI EP 769696	A2	19970423	EP 1996-306866	19960920	<--
EP 769696	A3	19980805			
R: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE					
US 5965355	A	19991012	US 1996-708591	19960905	

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